

Special List of Chemical Stone-ware.

Established 1851.

EIMER & AMEND,

205, 207, 209 and 211 Third Avenue,

18th Street Station of Elevated R. R.

NEW YORK.

Manufacturers, Importers, and Dealers in

Chemicals & Chemical Apparatus

Sole Agents in the United States for the

German Acid & Fire-proof Chemical Stone-ware

Manufactured by

ERNST MARCH SÖHNE,

BERLIN.

Also Agents for: Joseph Kavaliers' Bohemian Glassware, Schleicher & Schüll's C. P. Filter-papers, Dr. Chas. Scheibler's Polariscopes, H. Trommsdorff's Chemicals, Prof. Jolly's Spiral Balances, H. Fleitmann's Patent Wrought Nickel-ware, Le Brun F. Desmoutis & Co.'s Hammered Platinum-ware, Greiner & Friedrich's German Glass Goods, Leybold's Nachfolger, Coeln.

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OPINIONS OF THE TRADE
ABOUT THE
CHEMICAL STONEWARE

MANUFACTURED BY
ERNST MARCH SÖHNE,
BERLIN.

EIMER & AMEND

SOLE AGENTS FOR THE UNITED STATES OF AMERICA.

Acid Pumps.

In reply to your esteemed favor of yesterday, I take pleasure in informing you that your **Acid Pumps** have in all respects proved satisfactory to my purposes. I have the pumps continually at work for the last 10 years and am much pleased both with their durability and general usefulness.

Berlin, June 23rd, 1886.

C. A. F. KAHLBAUM,
Schlesische Str. 16-19.

In respectful answer to yours of June 25th, we are happy to inform you that we are fully satisfied with all the Stoneware, such as **Stopcocks, Funnels, Pitchers and Pumps**, of your manufacture.

We have employed them for some years in our laboratory and factory, and have never had cause to complain of material or shape. Your large stopcocks especially have proved very practical for all kinds of sulphuric acid wash-apparatus.

Berlin, July 6th, 1886.

Chemische Fabriks-Act. Gesellschaft in Hamburg,
General-Agentur, Berlin, Flatwell Strasse, No. 1.

At your request we state with pleasure that your diverse Stoneware vessels (**Pitchers, Large Pots, Chlorine Generators and Troughs**,) have always well resisted the destructive influence of hot, concentrated acids and alcalis, and that even your **square troughs** of largest size successfully bear sudden changes in temperature from hot to cold, or vice versa. We can but give your goods our unlimited praise, and will always be pleased to remit our future orders to you.

Grünen near Berlin, July 13th, 1886.

EWER & PICK.

Chlorine Generators.

Replying to your esteemed favor of the 22nd, permit me to inform you, that your **Chlorine Apparatus and Evaporating Dishes**, have, on the whole been very successfully employed in my chemical works.

Darmstadt, June 28th, 1886.

E. MERCK.

At your request we testify with pleasure, that the **Chlorine Apparatus, Crystallization Dishes**, as well as other stoneware articles of your manufacture, made for us by design, have given us great satisfaction and proved reliable in every respect.

Dresden Neustadt, July 6th, 1886.

GEHE & CO.

It is with sincere pleasure, that we answer your esteemed favor of the 16th, to the effect that your **Stoneware-vessels**, such as **Acid Pots, Woulf's Bottles and Stopcocks** have always gratified us in every respect. The material resists strong mineral acids very well indeed and can as well readily undergo changes of temperature in pretty wide limits.

Berlin, July 21st, 1886.

Action Gesellschaft für Anilin Fabrication.

Evaporating Dishes.

We herewith testify with pleasure, that we are well pleased with your **evaporating dishes**. The same have stood the action of acid and alkaline fluids, and on the whole can bear readily a change in temperature of up to 100° C.

Oestrich i. Rheingan, July 1st, 1886.

RUDOLPH KOEPP & CO.

At your request we testify hereby that the **Stoneware-Evaporating Dishes** which you supplied us with, and which we use for evaporating and crystallizing solutions of acid salts, have satisfied us with respect to their usefulness and durability.

Frankfurt a. Main, June 30th, 1886.

Deutsche Gold and Silber-Scheide-Anstalt,
vorm. RÖSSLER.

In receipt of your letter of yesterday, we take pleasure in confirming to you, that the **Stoneware-vessels** which we buy from you since a number of years, are used in our Chemical Works for manifold purposes and have always successfully withstood all the tests that can possibly be required of such material.

Berlin, July 3rd, 1886.

Chemische Fabrik auf Actien,
vorm. E. SCHERING.

Filtering Cylinders.

At your esteemed request, I confirm with pleasure, that the **Filtering Cylinders** bought of you in 1883, are being continuously employed in furnishing us with filtered water for drinking purposes, and have proved a complete success in all respects. We also employed them advantageously as **Percolators** for the manufacture of some fluid extracts according to the U. S. Pharmacopoea.

Salzwedel, Nov. 9th, 1886.

KONRAD ZECHLIN.

Stopcocks.

In reply to your esteemed of the 14th curr., we inform you that we are well satisfied with the stoneware articles, and in particular the **Stopcocks** you furnished us with. The latter, which denote superior workmanship, have the advantage of not only closing tight on acid vessels, but also for a long time effectually resisting the influence of Chlorine and Bromine.

Of all goods delivered to us, we can but highly praise the excellent shape and material.
Höchst, a. M. July 17th, 1886. Farbwerke, vorm. MEISTER, LUCIUS & BRÜNING.

We are in receipt of yours of the 24th curr., in answer to which we assure you, that your **stopcocks** employed by us up to date, for hot and cold acids, have been a great success, with exception of such that must undergo a sudden change from high temperatures down to 80° C.

Ludwigshafen a. Rh., July 3rd, 1886.

BADISCHE ANILIN & SODAFABRIK.

In reference to your favor of the 6th, curr., concerning the **Stoneware-Stopcocks**, I can only confirm, that they have in every respect fulfilled my expectations. The material is good and acid proof, the cones well ground in. I am pleased to inform you to your satisfaction, that they are the best I have ever had.

Ludwigshafen, July 13th, 1886.

JOH. A. BENKISER,
Chem. Fabrik.

Troughs.

In respectful reply to your esteemed favor of the 21st, we notify you, that the **Troughs for galvanic baths** used by us, must have strong walls and bottoms, and a perfect glazing inside. The articles of your manufacture which we employ for this purpose upwards of 20 years, have always answered the above requirements to our full satisfaction.

Berlin, June 24, 1886.

H. A. JÜRST & CO.
Chaussée Strasse, 53.

Your favor of the 7th curr., is at hand; accept my sincere thanks for the various **Stoneware-vessels** you have had the kindness to supply me with, and rest assured that I shall always be pleased to supply my wants through your esteemed house.

St. Petersburg, July 9th, 1886.

O. RICHTER.

In consideration of your favor of the 21st, curr., we confirm willingly that your **Troughs** which are throughout, proof against acid and alkaline substances, have been employed by us for the past 10 years. They have without exception resisted the above treatment effectually and satisfied us in all respects.

Lauchhammer, June 24th, 1886.
vereinigte vorm. GRÄFL. EINSIEDELSCHER WERKE.

Following with pleasure your request of the 22nd curr., we inform you that we are very well satisfied with the **Stoneware-troughs**, Pots and Evaporating Dishes you have supplied us with at different periods and which we used for **Acid and Alkaline fluids**.

Geisslingen, a. d. Steige, June 26th, 1886.
Württemb. Metallwaarenfabrik Geisslingen.

Woulf's Bottles.

In reply to yours of yesterday, we inform you that the **Woulf's Bottles** which we employ, of your manufacture, are used for condensing hot muriatic acid fumes, and proved satisfactory in all respects.

Aschersleben, July 12th, 1886.

Kaliwerke Aschersleben, Gewerkschaft.

Answering your esteemed request of the 8th, we hereby assert with pleasure, that since 25 years we use your **Stoneware Depositing Vessels** in our Sal Ammonia Works. They have given us great satisfaction, not being injured in any way by very concentrated Ammonia hydrate and combining at the same time great durability, with nonporosity.

Dessau, July 9th, 1886.

Deutsche Continental Gas Gesellschaft.

5012.—**Acid Pitchers**, with one handle, from 1 gallon up, also with two handles.

Capacity,	1,	2,	4,	6,	8	pints.
Price,	.20	.25	.30	.40	.50	cts. each.
Capacity,	1½,	2,	2½,	3,	4,	5,
Price,	\$.65,	.80,	.95,	1.10,	1.25,	1.75,
						2.25 each.

5013.—**Acid Pots**, cylindrical or conical.

Capacity,	2½,	4,	5,	6,	7½,	10	gallons.
Price,	\$1.00,	1.40,	1.85,	2.35,	2.80,	3.75	each.

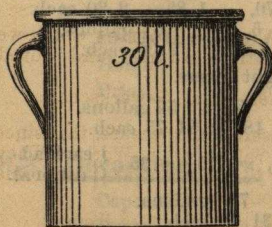
5016a.—**Acid Pumps**, vertical movement.

No.	1,	2,	3,
Diameter of Piston,	2½,	3½,	4
Length of stroke,	8,	9,	10
Price complete,	\$43.00,	52.00,	62.00.

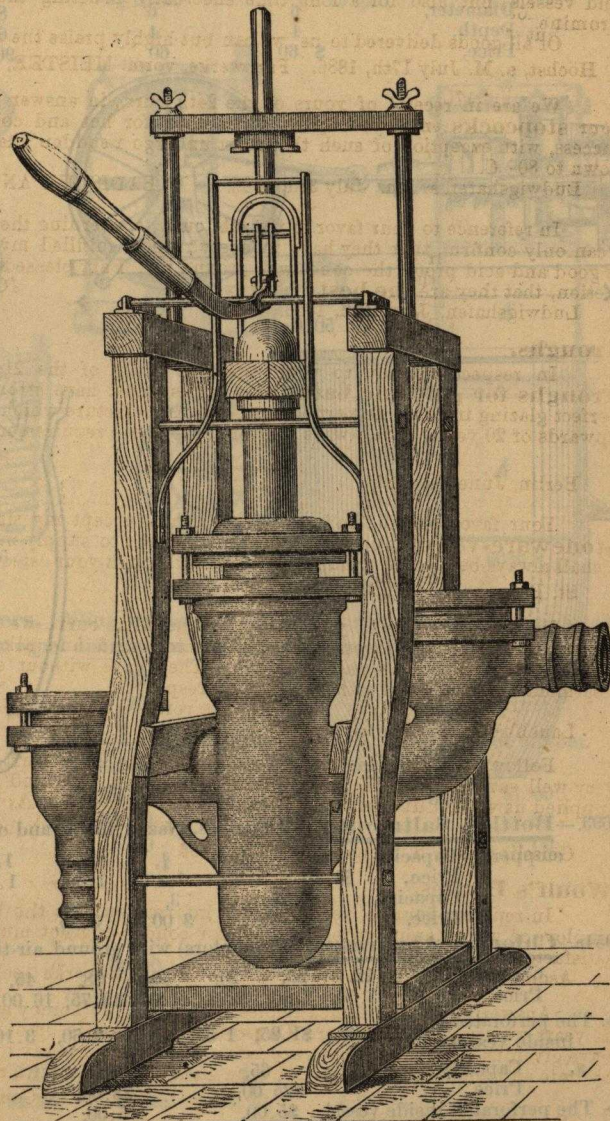
5016b.—Mounting in Wood and Iron, extra to order.



5012



5013



4016 b

5016c.—**Acid Pumps**, horizontal movement, improved system, valves and packing made of vulcanized pure rubber, mounting in iron.

Dia. of piston, 3 $\frac{3}{16}$ inch. Vol. delivered per stroke, 1 liter. Price, incl. fly-wheel or belt-gear, \$150.00

Price of Stoneware and Rubber parts only, \$60.00. Larger sizes to order.

5018.—**Acid Vessels**, with or without outlet near the bottom.

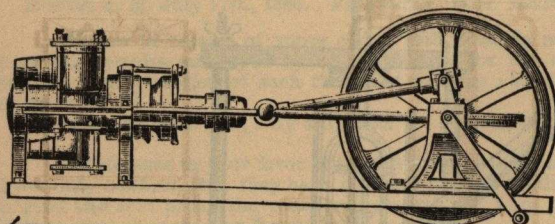
Capacity,	12,	20,	25,	30,	38,	45,	50,	55
Price,	\$3.75,	5.50,	7.50,	9.25,	11.00,	13.00,	15.00,	17.50

Capacity,	65,	70,	75
Price,	\$20.00,	22.00,	25.00

The last three sizes are made to order only.

5526a.—**Baskets**, as used for staining, etc.

Diameter of holes,	1-8	5-16	1-4
Diameter,	6	8	8
Depth,	4	6	6
Price,	\$.60	.90	.90



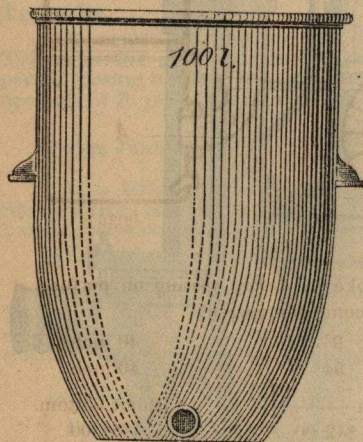
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5016 c



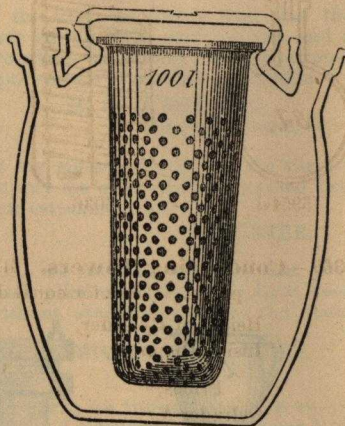
5526 a



5693



5018



5954 a

5693.—**Bottles, Saltmouth**, for Shelves, glazed inside and outside, with air-tight ground stoppers.

Capacity,	1,	1,	1,	1,	1 1/2,	1 1/2,	2
Price,	\$1.10,	1.25,	1.40,	1.55,	1.70,	1.85,	2.20

Capacity,	2 1/2,	3,	4,	5,	6
Price,	\$2.65,	3.00,	3.75,	5.00,	6.00

5954a.—**Chlorine Apparatus**, (Generators) with ground air-tight covers.

Capacity,	6,	12,	20,	25,	30,	38,	45,	50,	55
Price,	\$3.75,	5.50,	7.50,	9.25,	11.00,	13.75,	16.00,	18.50,	21.75

b. The perforated inside vessel } .80, .95, \$1.25, 1.55, 1.85, 2.50, 3.10, 3.75, 4.35 } each additional.

a. Capacity,	65,	70,	75
Price,	\$25.00,	28.00,	31.00

b. The perforated inside vessel,	\$5.00,	5.50,	6-25
			each additional.

The last three sizes are only made to order.

c.—**Above Chlorine Apparatus** if ordered with outlet near the bottom 50 cents each additional. If ordered with ground-in stop-cock, the price of stop-cock and 50 cents for grinding will be added.

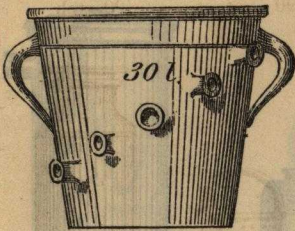
5954d.—**Chlorine Generators**, with 2 tubes ground in.

Capacity,	$\frac{1}{2}$,	$\frac{3}{4}$,	1,	$1\frac{1}{4}$,	$1\frac{1}{2}$	gallons.
Price,	\$1.25,	1.40,	1.55,	1.70,	2.15,	2.65, 3.00, 3.75 each.

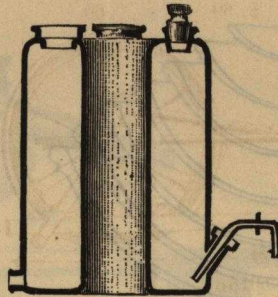
6036.—**Condensing Coils**, with funnel and outlet of any shape desired, made to order.

6036a.—**Condensing Jars**, improved, with double walls, ground-in stopper and syphon.

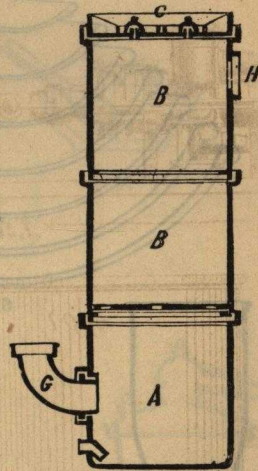
Outside diameter,	Inside diameter,	Capacity,	Price,
20 inch.	6 $\frac{3}{8}$ inch.	25 gall.	\$24.00



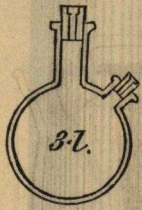
6146



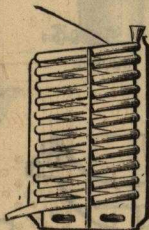
6036 a



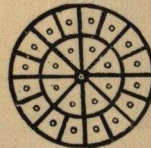
6036 b



5954 d



6036



6036 b

6036b.—**Condensing Towers**, filling consists of coke or rings, resting on perforated plates. Cover for equal distribution of the condensing agent.

Height of Cylinder,	32	36	40 inch.
Inside Diameter,	30	34	40 inch.
Prices,	—with bottom—		without bottom.
Cylinder A,	\$32.40	\$42.00	\$54.00
" B & B,	30.00	36.00	51.00
Cover,	21.60	25.20	30.00
Sieve plate,	4.50	6.60	9.00

Rings for filling,

Inside Diameter,	4	4 $\frac{1}{4}$	4 $\frac{3}{8}$ inch.
Height,	4	4	4 inch.
Price,	\$9.00	10.50	12.00 per 100.

Only made to order.

6146.—**Decanting Jars**.

Capacity,	2 $\frac{1}{2}$,	5,	7 $\frac{1}{2}$,	10	gallons.
Price,	\$1.25,	2.20,	3.25,	4.35	each.

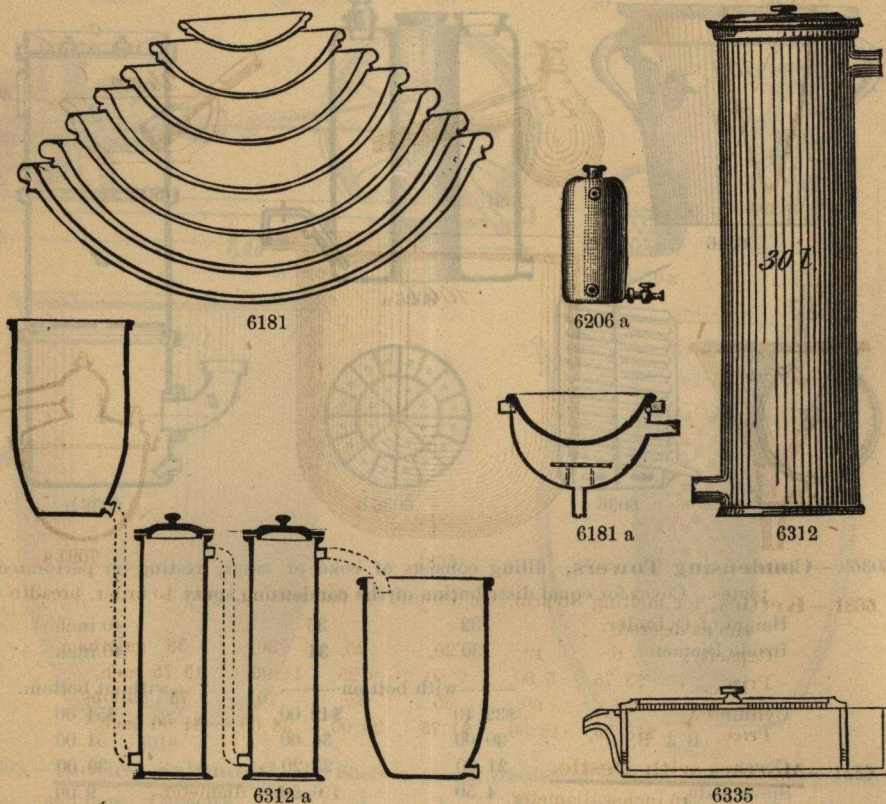
6206a.—Dripping Flasks, with ground-in stopcock.

Capacity,	12	24	38 gallons.
Price,	\$7.20	9.60	13.20
Only made to order.			

6181.—Evaporating Dishes.

Diameter,	8,	9,	10,	11,	12,	14,	16,	18,	20 inches.
Capacity,	$\frac{3}{8}$,	$\frac{1}{2}$,	$\frac{5}{8}$,	1,	$1\frac{1}{4}$,	2,	3,	$4\frac{1}{2}$,	6 gallons.
Price,	.30,	.45,	.60,	.80,	.95,	\$1.35,	1.85,	2.50,	3.50 each.
Diameter,	22,	25,	28,	32,	36	40 inches.			
Capacity,	8,	11,	16,	19,	25,	40 gallons.			
Price,	\$4.75,	5.50,	7.50,	9.25,	13.50,	20.00 each.			

NOTE.—These dishes are very reliable on the water-bath and also when heated by direct steam. Cut 6181a shows the arrangement preferable for the latter case, the steam being let into the metal heating vessel at A and spread by means of a perforated disk of sheet metal.

**6312.—Filtering Cylinders.**

(See also cut 6312a, showing arrangement of apparatus. For the reservoir jars compare "acid vessels". Any design of different disposition can be readily carried out.)

Dimensions,	34 inches high, 8½ inches wide,	
Capacity,	7½ gallons,	price \$3.75.
Dimensions,	37 inches high, 10¼ inches wide.	
Capacity,	11 gallons.	price \$7.50.

6335.—Fish Hatching Boxes, according to Dr. Brehm.

Dimensions, 17 inches long, 8 inches wide, 5 inches high, price \$3 00 each.

6399a.—Funnels.

Diameter,	4,	5,	6,	7,	8,	9,	10 inches.
Price,	\$0.20,	.25,	.30,	.40,	.50,	.60,	.80 each.
Diameter,	11,	12,	14,	16 inches.			
Price,	\$1.00,	1.25,	2.00,	2.75 each.			

6399b.—Funnels, Crystallization, only made to order.

Diameter,	Height.	Inside diameter of tip.
10	22	$\frac{5}{8}$ inches.
Price \$2.00.	Other sizes at corresponding rates.	

6400a.—Funnels, Separatory, with stop-cock.

Diameter,	9,	12 inches on top.
Outlet,	$\frac{5}{8}$,	$\frac{7}{8}$ inch bore.
Price,	\$2.25,	3.00 each.



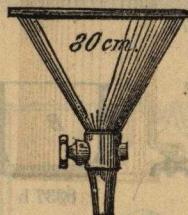
6399 b



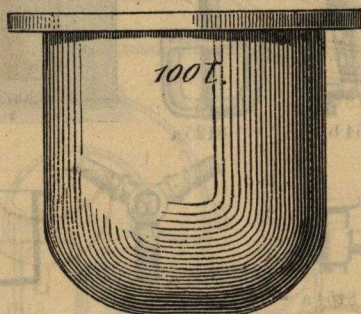
7091



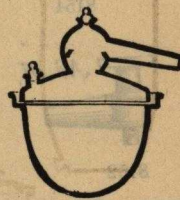
6841



6400 a



6681



7091 a

6681.—Kettles, for melting Stearin, etc., round or flat bottom, only to order, breadth of rim as desired.

Capacity,	6,	12,	20,	25,	30,	38 gallons.
Price,	\$3.75,	5.50,	7.50,	9.25,	11.00,	13.75 each.
Capacity,	45,	50,	55,	65,	70,	75 gallons.
Price,	\$16.00,	18.50,	21.75,	25.00,	28.00,	31.00 each.

6841.—Mortars with Pestle.

16 inches diameter,	19 inches diameter.
Price, \$3.50.	5.00.

7091.—Retorts, tubulated and stoppered.

Capacity,	$\frac{1}{8}$,	$\frac{1}{4}$,	$\frac{3}{8}$,	$\frac{1}{2}$,	$\frac{3}{4}$,	1,	$1\frac{1}{4}$,	$1\frac{1}{2}$ gallons.
Price,	\$1.25,	1.40,	1.55,	1.70,	2.15,	2.65,	3.00,	3.75 each.

7091a.—Retorts, with moveable cover, (for making Bromine).

Capacity,	$1\frac{1}{2}$,	$3\frac{1}{2}$,	7	$10\frac{1}{2}$,	13 gallons.
Price,	\$6.00	9.00	18.00	24.00	27.00

For mode of heating see note under 6181, page 4.

8125a.—**Stirrers**, for vessels of all shapes promptly made to order at lowest rates.

8152.—**Stop-cocks.**

Number,	I,	II,	III,	IV,	V,	VI,
Bore,	10,	15,	20,	25,	30,	40 millimeters.
"	$\frac{3}{8}$,	$\frac{5}{8}$,	$\frac{3}{4}$,	1,	$1\frac{3}{16}$,	$1\frac{1}{2}$ inch.
Price,	\$1.40,	1.60,	1.85,	2.30,	2.80,	3.60 each.

8154.—**Stop-cocks.**

Number,	I,	II,	III,	IV,	V,	VI,	VII,	VIII,	IX,
Bore,	10,	15,	20,	25,	30,	40,	50,	65,	80 millimeters.
"	$\frac{3}{8}$,	$\frac{5}{8}$,	$\frac{3}{4}$,	1,	$1\frac{3}{16}$,	$1\frac{1}{2}$,	2,	$2\frac{1}{2}$,	$3\frac{1}{4}$ inches.
Price,	1.40,	1.60,	1.85,	2.30,	2.80,	3.60,	4.65,	6.20,	7.75 each.

8154a.—**Stopcocks with flange,**

8154b.—**Stopcocks for decanting,**

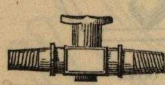
} made to order.

8153.—**Stop-cocks.**

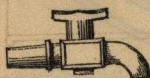
Number,	IIa,	IIIa,	IVa,	Va,	VIa,	VIIa,	VIIIa,	IXa,
Bore,	15,	20,	25,	30,	40,	50,	65,	80 millimeters.
"	$\frac{5}{8}$,	$\frac{3}{4}$,	1,	$1\frac{3}{16}$,	$1\frac{1}{2}$,	2,	$2\frac{1}{2}$,	$3\frac{1}{4}$ inches.
Price,	\$1.60,	1.85,	2.30,	2.80,	3.60,	4.65,	6.20,	7.75 each.

8154c.—**Stopcocks, three-way**, according to description, 75 per cent. additional.

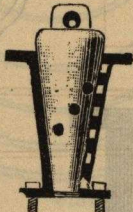
For grinding Stop-cocks into outlets of vessels, 50 cents each.



8153



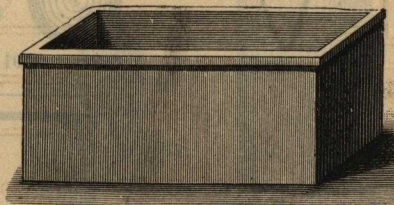
8154



8154 b



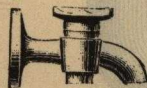
8125 a



8337



8152



8154 a



8154 c



8337 a



8337 b

8337.—**Troughs**, stoneware, acid and alkali proof, for galvanic baths and other chemical and technical use, well glazed.

Inside dimensions,	12x9x9,	12x12x12,	16x12x12,	16x16x12,	20x16x12 inches.
Capacity,	4,	7,	9,	12,	15 gallons.
Price,	\$2.50,	4.35,	5.50,	7.50,	9.25
Inside dimensions,	24x16x12,	24x20x12,	32x20x12,	16x16x16,	20x16x16 inches.
Capacity,	18,	23,	30,	16,	20 gallons.
Price,	\$11.00,	13.50,	15.00,	10.00,	12.50
Inside dimensions,	24x20x16,	32x20x16,	40x20x16,	24x20x20,	32x20x20 inches.
Capacity,	30,	40,	50,	38,	50 gallons.
Price,	\$15.00,	20.00,	25.00,	18.50,	25.00
Inside dimensions,	40x20x20,	24x24x24,	32x24x24,	40x24x24,	32x28x28, 40x28x28 in.
Capacity,	63,	54,	72,	90,	98,
Price,	\$31.00,	26.50,	36.00,	44.50,	48.00,
					60.00

Troughs of other dimensions, not exceeding a capacity of 125 gallons and a length, width or height of 40 inches are made to order; any desirable changes, as tubulatures, etc., will be added according to directions. See 8337a and 8337b.

These Stoneware Troughs are perfectly acid and alkali proof, but should not be used for boiling acids in, nor should they be exposed to sudden heat.

8345. — **Tubes**, conical *a* or straight *b*, with flange or enlargement to order in any shape, also with knee and branches.

	1,	2,	3,	4,	5,	6,	7,	8
	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.
Price, \$	1.00,	1.15,	1.25,	1.55,	1.85,	2.20,	2.75,	3.00
	9,	10,	11,	12,	14,	16,	18,	20
Price, \$	3.75,	4.25,	5.25,	6.25,	7.50,	9.25,	11.75,	15.00.

Per Meter = 39 inches.

Diameters of Conical Tubes are measured according to diameter in the middle of the tube. Diameters of branches or angles of connection pieces, etc., are measured at the ends.

8346. — **Tubes for Condensation Towers.**

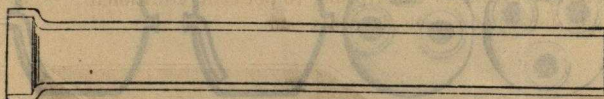
Inside diam. 24, 28, 32, 35½, 39 inches.

Price, \$22.00, 31.00, 40.00, 50.00, 62.00 per Meter = 39 inches length.

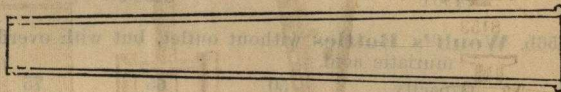
Tubes, Attaching with inlet and outlet for passing Acids through (as used in fig. 8456b) \$2.00 to \$3.00 each additional.

8345a. **Tubes Connection**, bent or rectangular of any shape and size from \$1.00 up, according to length and bore, see fig. 8456b.

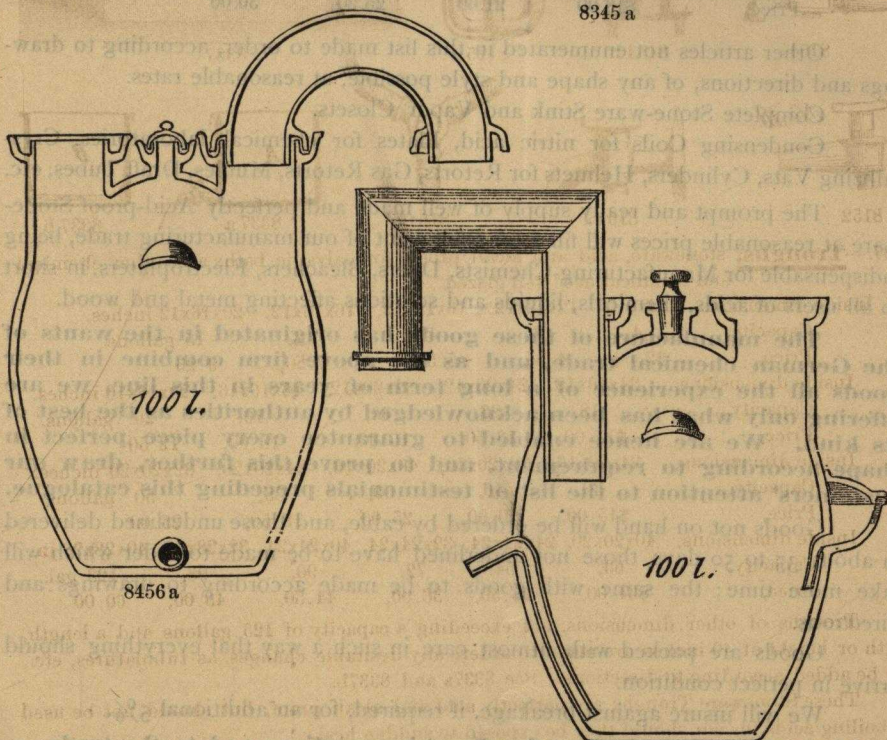
Straight,	Inside diameter,	7	8	9	10	11	12
Price per 1 meter		\$2.55	3.00	3.60	4.20	5.10	6.00
Bent,	Inside diameter,	7	8	9	10	11	12
Price,		\$3.60	4.50	5.40	6.30	7.20	8.10



8345 b



8345 a



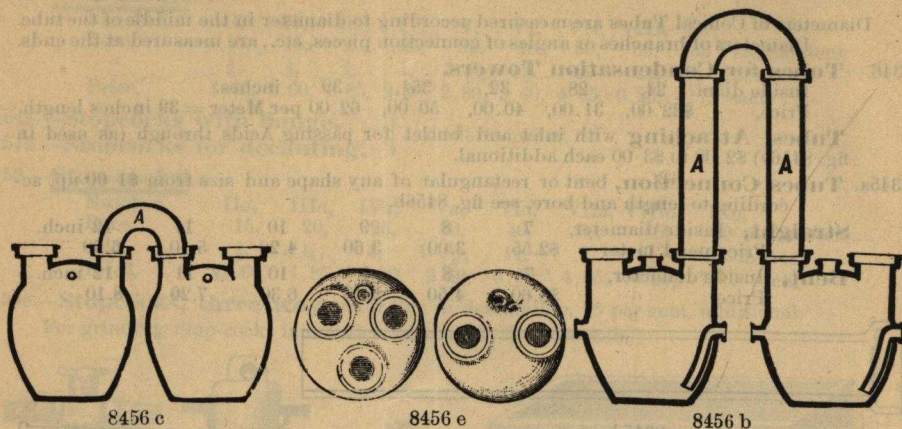
8456 a

100 L.

8456 b

8456.—**Woulf's Bottles** with or without outlet near the bottom, with water joint *a* or plain flange *b*.

Capacity,	6,	12,	20,	25,	30,	40	gallons.
Price,	\$3.00,	4.25,	6.25,	8.00,	10.00,	11.75	each.
Capacity,	45,	50,	55,	65,	70,	75	gallons.
Price,	\$13.50,	16.00,	18.50,	21.00,	23.50,	26.00	each.



8456b. **Woulf's Bottles** without outlet, but with overflow arrangement for condensing muriatic acid.

Capacity,	50	65	75	100	gallons.
Price,	\$18.00	21.60	25.20	30.00	

Other articles not enumerated in this list made to order, according to drawings and directions, of any shape and style possible, at reasonable rates.

Complete Stone-ware Stink and Vapor Closets.

Condensing Coils for nitric acid, Plates for chemical laboratories, Crystallizing Vats, Cylinders, Helmets for Retorts, Gas Retorts, Muffles, Draft Tubes, etc.

The prompt and ready supply of well made and perfectly Acid-proof Stone-ware at reasonable prices will fill a long felt want of our manufacturing trade, being indispensable for Manufacturing-Chemists, Dyers, Bleachers, Electroplaters, in short to all users of acids, chemicals, liquids and solutions affecting metal and wood.

The manufacture of these goods has originated in the wants of the German chemical trade, and as the above firm combine in their goods all the experience of a long term of years in this line, we are offering only what has been acknowledged by authorities as the best of its kind. We are hence enabled to guarantee every piece perfect in shape according to requirement, and to prove this further, draw our customers' attention to the list of testimonials preceding this catalogue.

Goods not on hand will be ordered by cable, and those underlined delivered in about 35 to 50 days, those not underlined have to be made to order which will take more time; the same with goods to be made according to drawings and directions.

Goods are packed with utmost care in such a way that everything should arrive in perfect condition.

We will insure against breakage, if required, for an additional 5%.

Prices are nett. Discount for direct importations and to the trade.

NEW YORK, August 1887.

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